

C Aβ species (% of total Aβ) (GSM-1)

Aβ38	DMSO		500 nM		2500 nM		5000 nM	
WT	15	13.6	17.4	18.4	34.3	27.9	38.3	33.5
L166P	5.2	5.7	4.9	4.8	11	7.2	13	12.1
R278I	5.3	6.5	7	7.6	14.4	12.4	18.7	18.4

Aβ42	DMSO		500 nM		2500 nM		5000 nM	
WT	3.7	3.4	2	2.6	0.7	1.1	0.6	0.9
L166P	30.1	28.5	29.5	30.3	28.2	30.5	29.6	28.5
R278I	9.3	9.2	10.1	7.7	12	9.5	10.5	10.2

Aβ40	DMSO		500 nM		2500 nM		5000 nM	
WT	79.6	80.6	78.9	76.5	63.4	68.6	59.5	63.1
L166P	42.2	38.3	41.9	44	40.1	44.8	37	38.3
R278I	18.1	19.7	17.2	21.1	17	18.3	18.4	19.2

Aβ43	DMSO		500 nM		2500 nM		5000 nM	
WT	1.7	2.4	1.7	2.5	1.6	2.3	1.6	2.5
L166P	22.6	27.5	23.7	20.8	20.6	17.5	20.3	21.1
R278I	67.3	64.5	65.7	63.6	56.6	59.7	52.4	52.2

D Aβ species (% of total Aβ) (RO-02)

Aβ38	DMSO		50 nM		250 nM		500 nM	
WT	9.7	12.7	12.8	18.4	39.9	48.9	56.7	63.8
L166P	4.1	3.8	4.5	6.2	16.8	14.9	25.4	24.6
R278I	3.3	9	4.2	9.9	11.3	19.2	20.1	26

Aβ42	DMSO		50 nM		250 nM		500 nM	
WT	3.7	3.4	2.7	2.6	1.4	1.8	1.1	1.8
L166P	29.5	30.8	31.3	28.2	30.2	32.6	30.8	29.5
R278I	10.1	11.1	9.9	10.3	10	11	9.4	11.2

Aβ40	DMSO		50 nM		250 nM		500 nM	
WT	85.1	81.6	82.6	76.4	56.1	45	39.5	29.4
L166P	43.2	45.2	40.2	41.2	32	35.7	26.2	30.1
R278I	20.4	21.5	20.4	21	23	19	25.6	22.3

Aβ43	DMSO		50 nM		250 nM		500 nM	
WT	1.5	2.2	1.9	2.5	2.6	4.3	2.7	5
L166P	23.2	20.2	24.1	24.4	21	16.8	17.6	15.8
R278I	66.2	58.4	65.5	58.8	55.6	50.8	44.8	40.5